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Fig. 1A

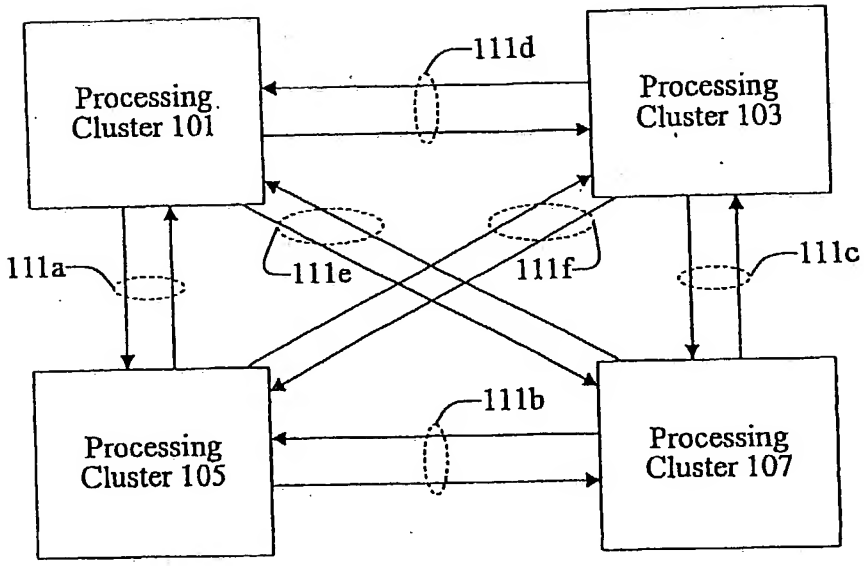
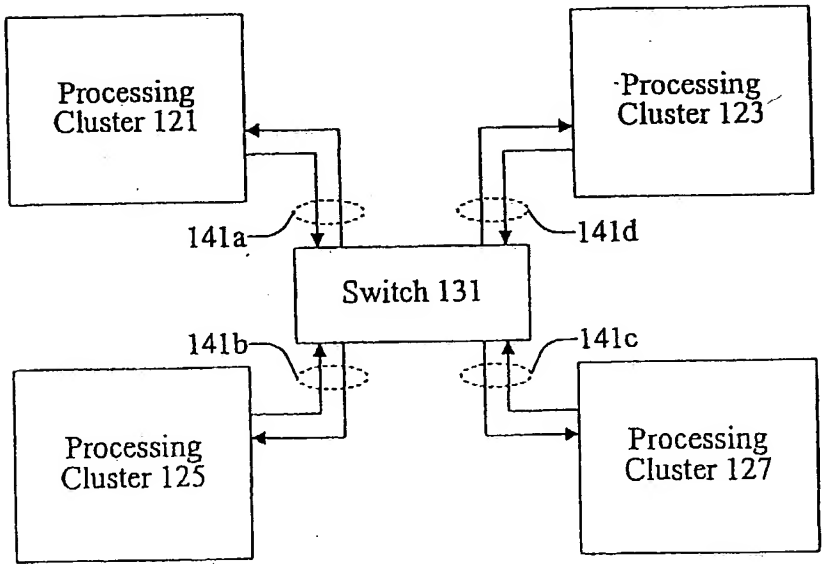


Fig. 1B



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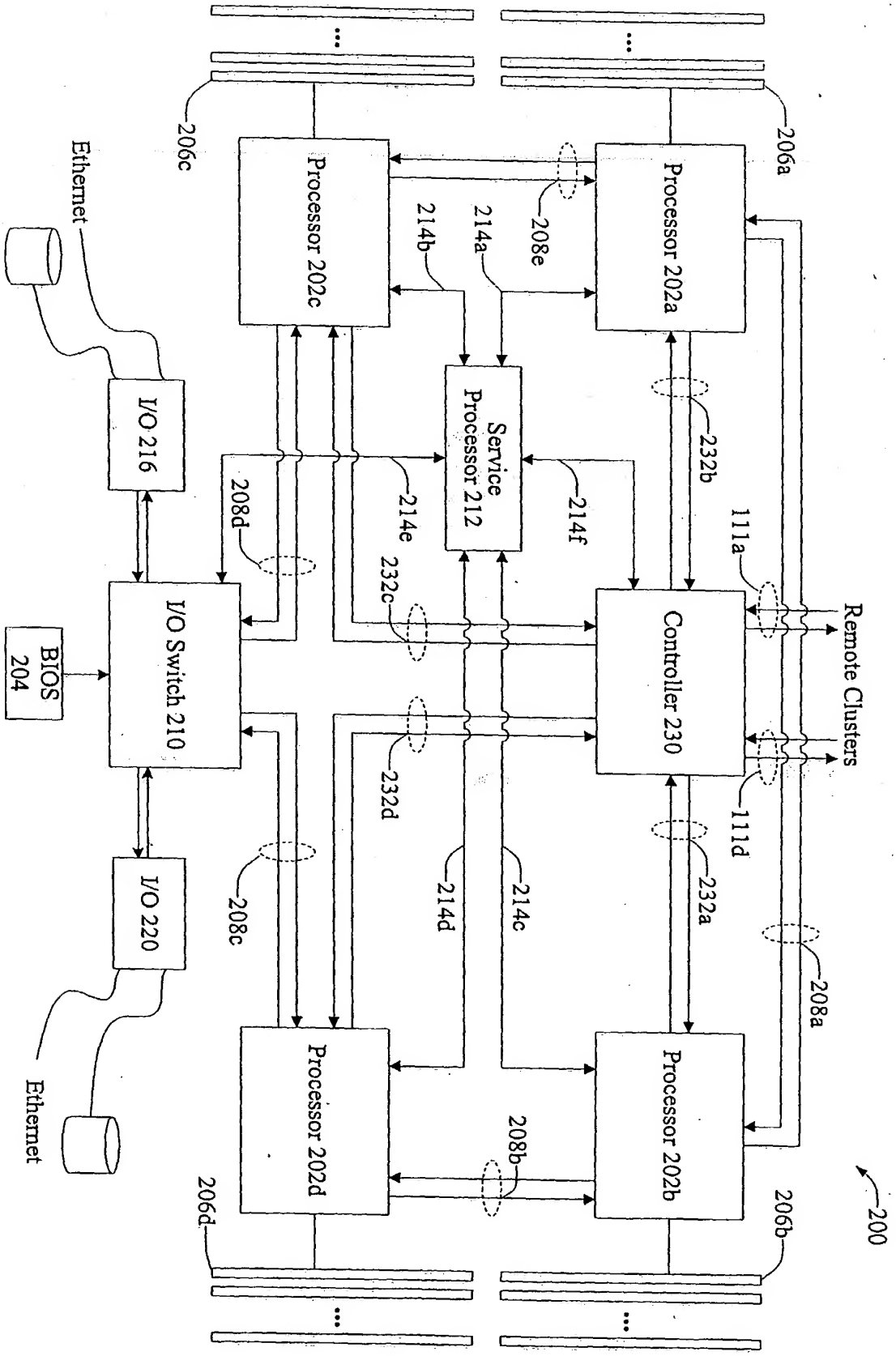

Fig. 2

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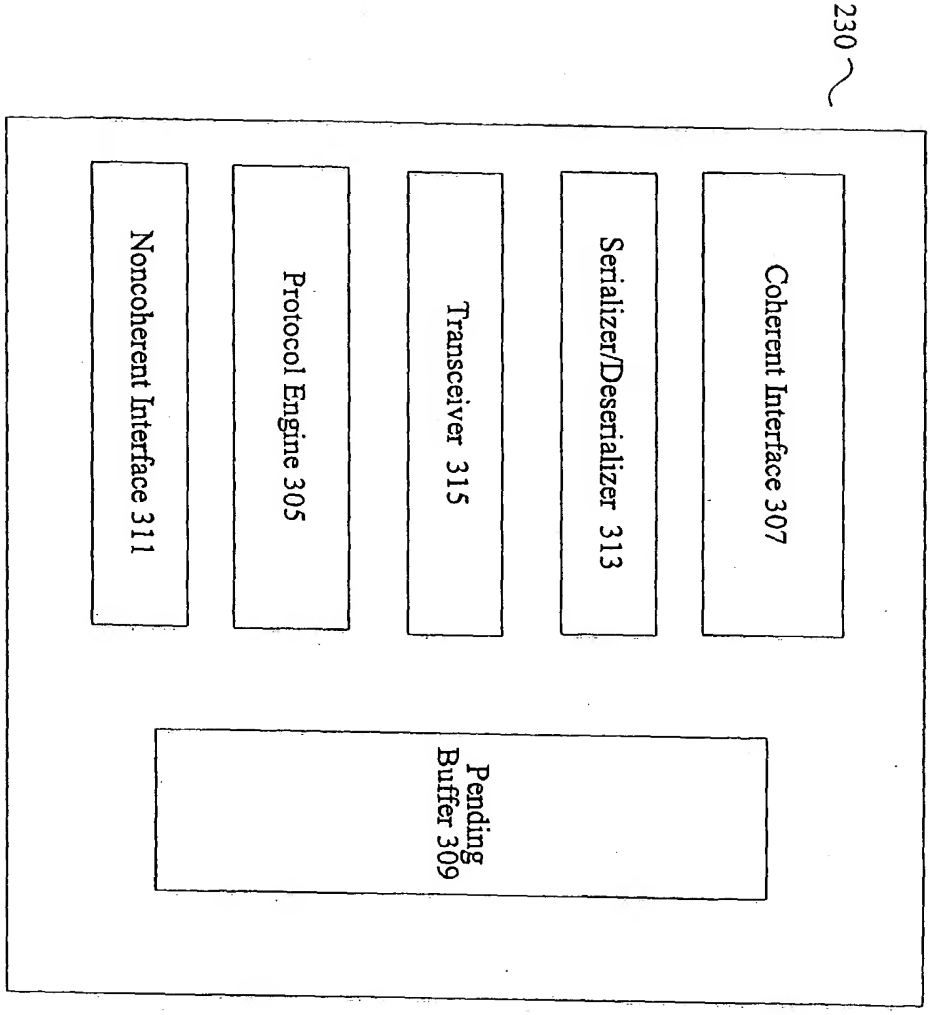

Fig. 3

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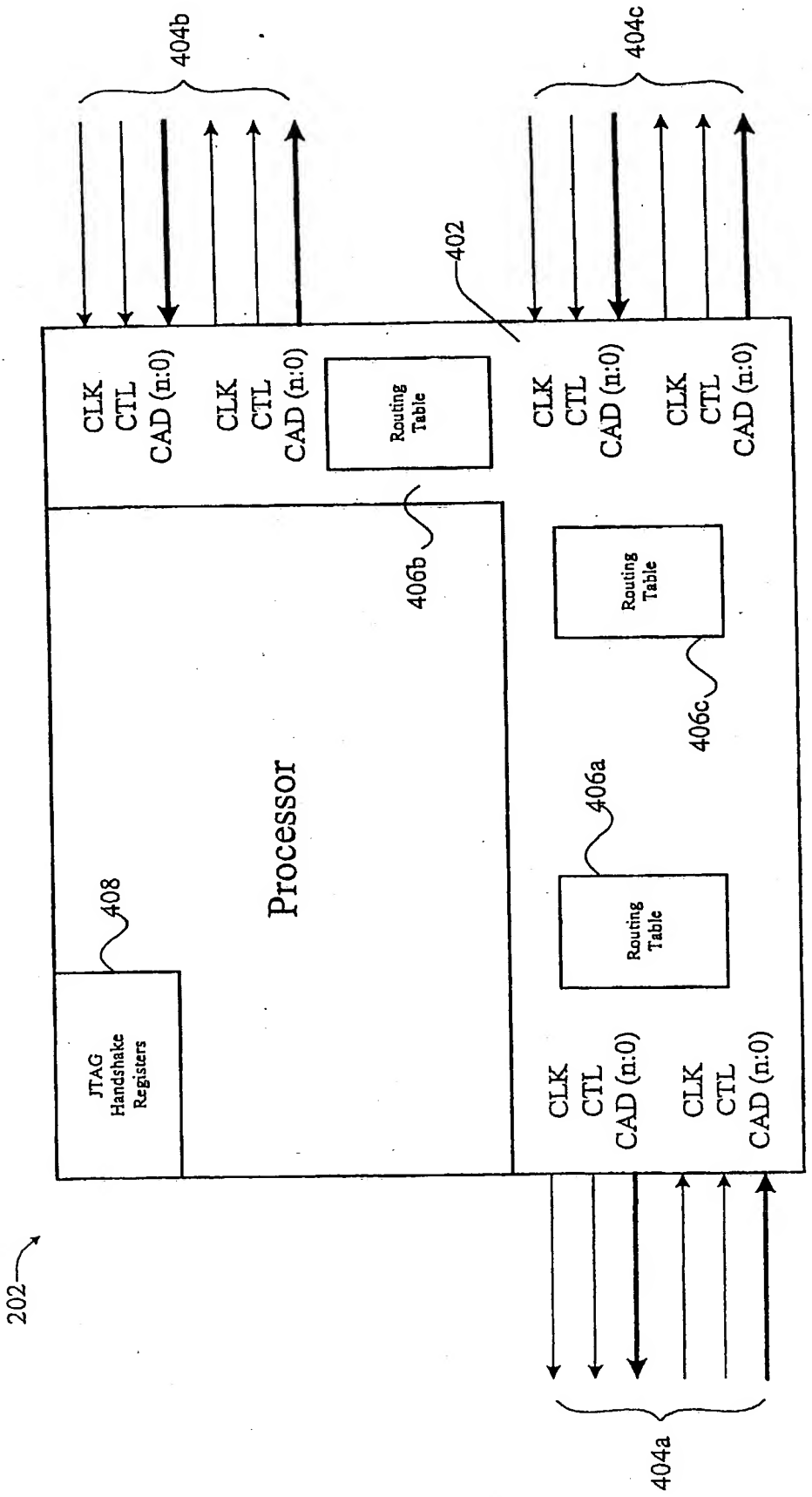

Fig. 4

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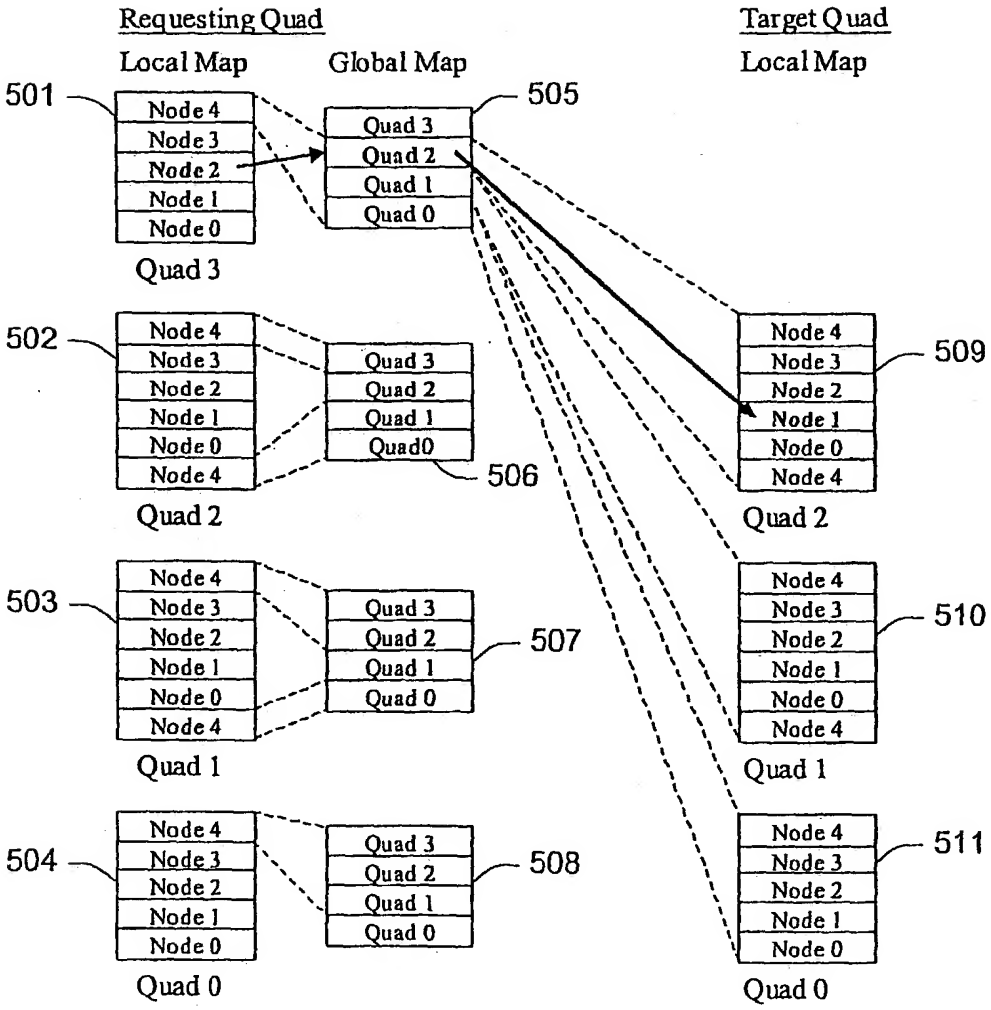

Fig. 5

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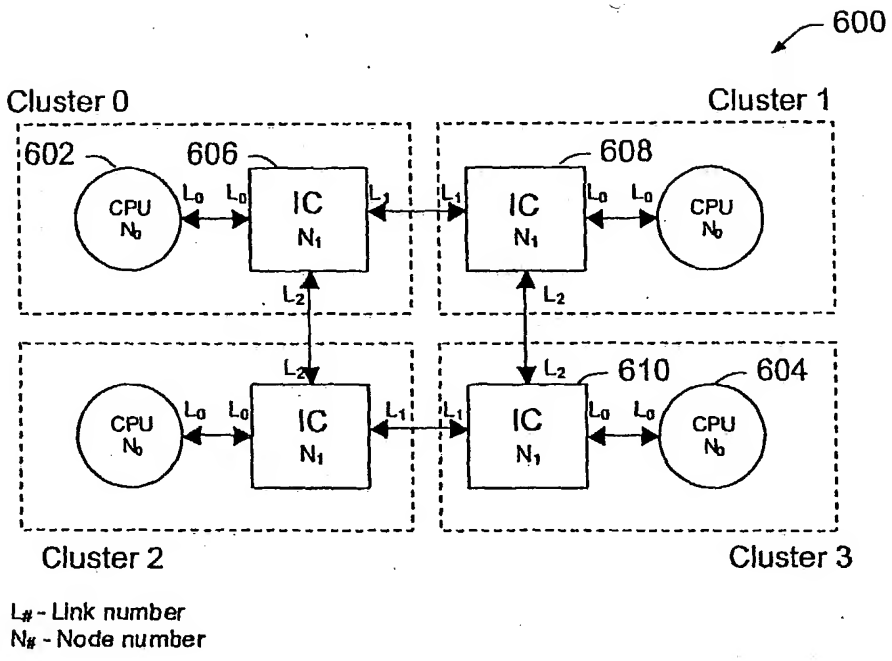

Fig. 6A

		Local Table		Global Table			
		Dest Node		Dest Cluster			
Source		N_0	N_1	C_0	C_1	C_2	C_3
Cluster 0	Node 0	X	L_0	NA	NA	NA	NA
	Node 1	L_0	X	X	L_1	L_2	L_1
Cluster 1	Node 0	X	L_0	NA	NA	NA	NA
	Node 1	L_0	X	L_1	X	L_2	L_2
Cluster 2	Node 0	X	L_0	NA	NA	NA	NA
	Node 1	L_0	X	L_2	L_2	X	L_1
Cluster 3	Node 0	X	L_0	NA	NA	NA	NA
	Node 1	L_0	X	L_2	L_2	L_1	X

Fig. 6B

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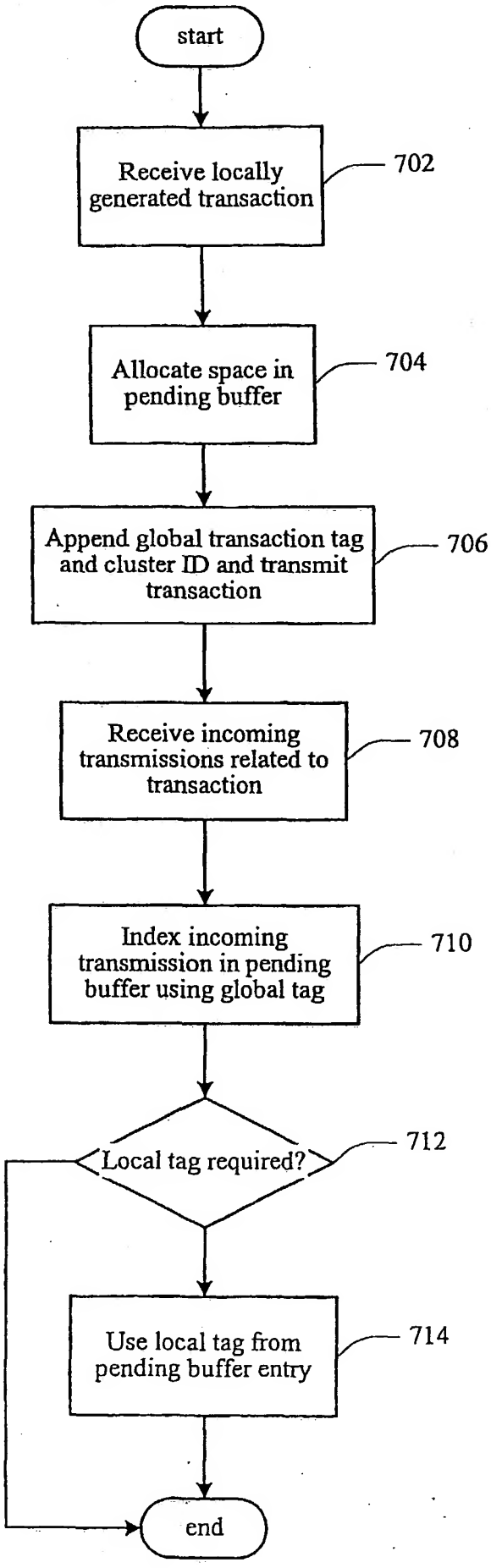

Fig. 7

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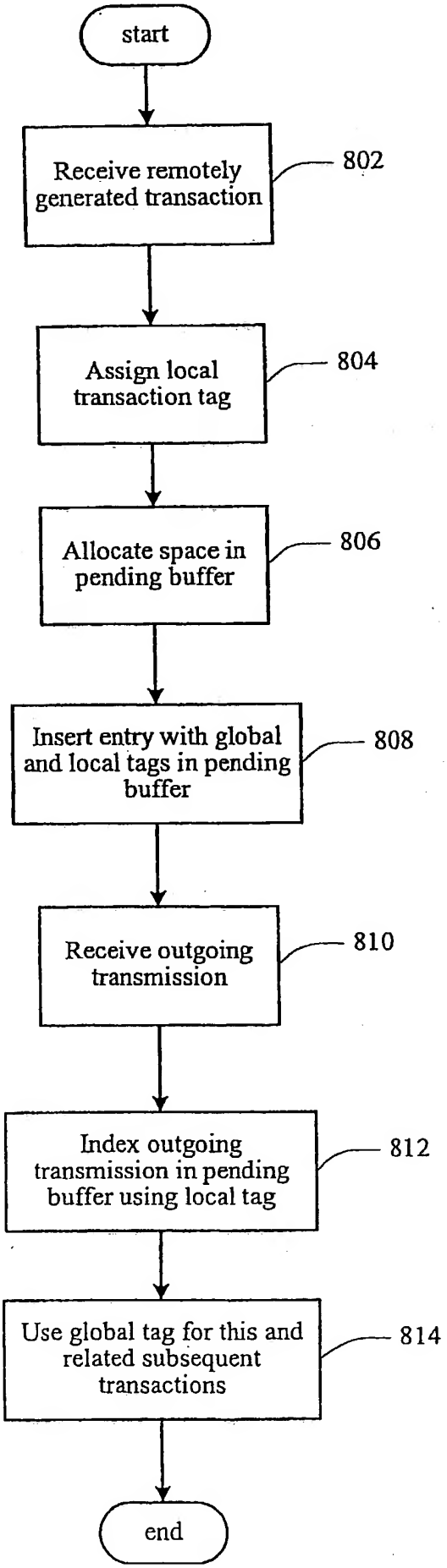

Fig. 8

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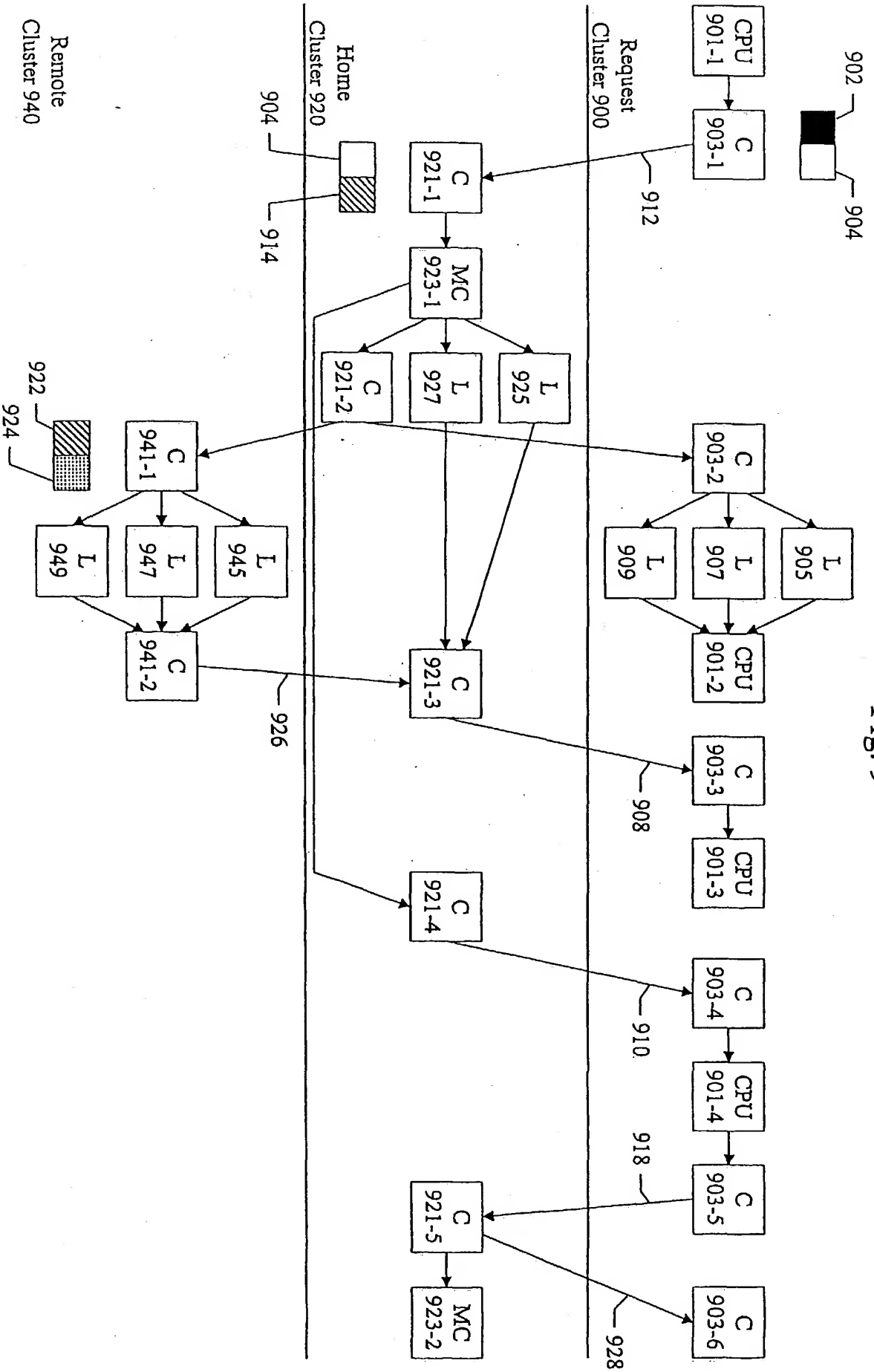

Fig. 9

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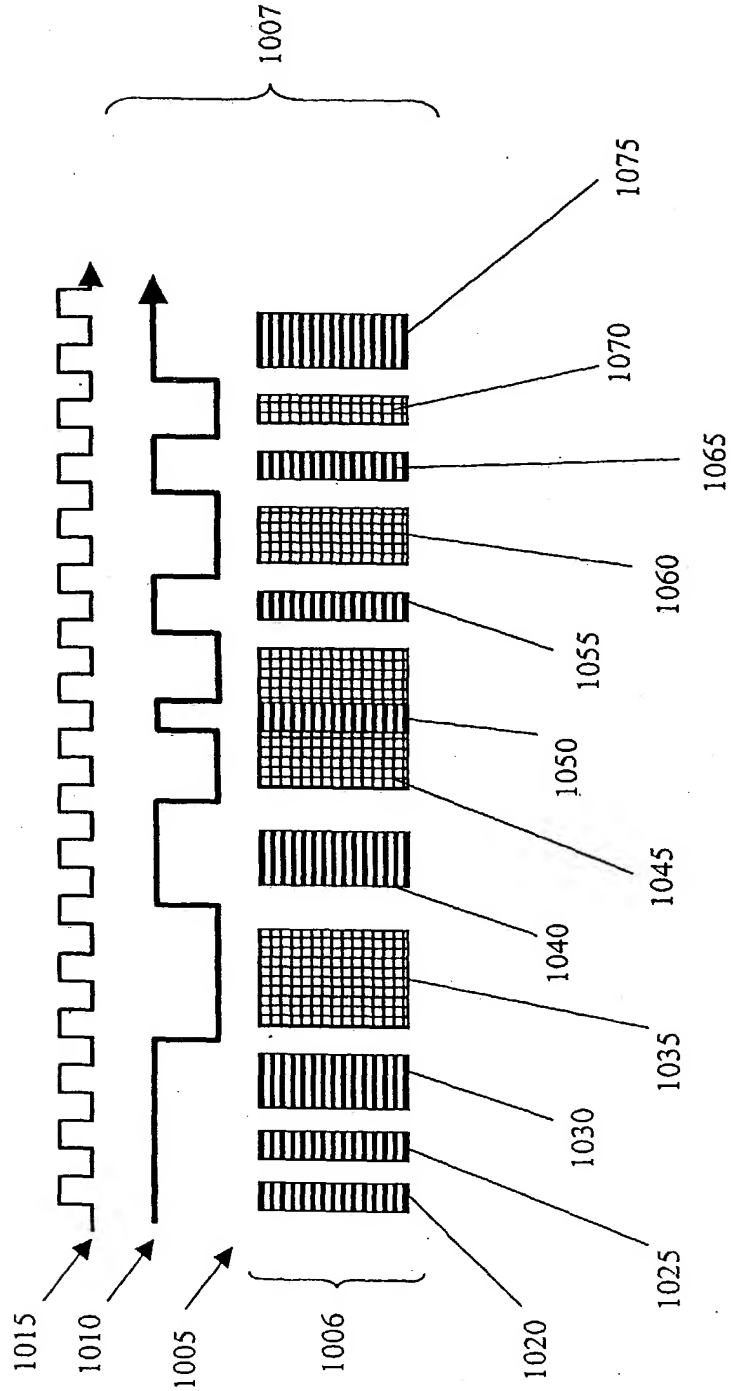

Fig. 10

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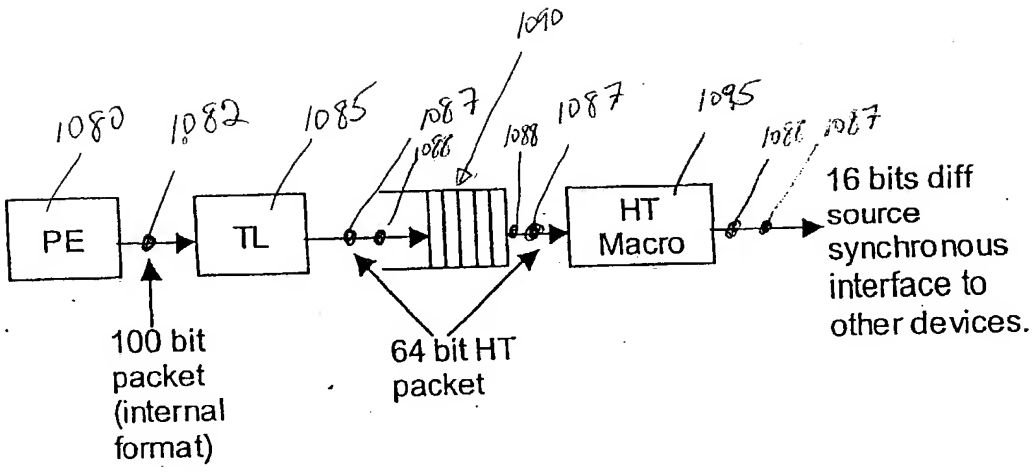
Fig. 10A



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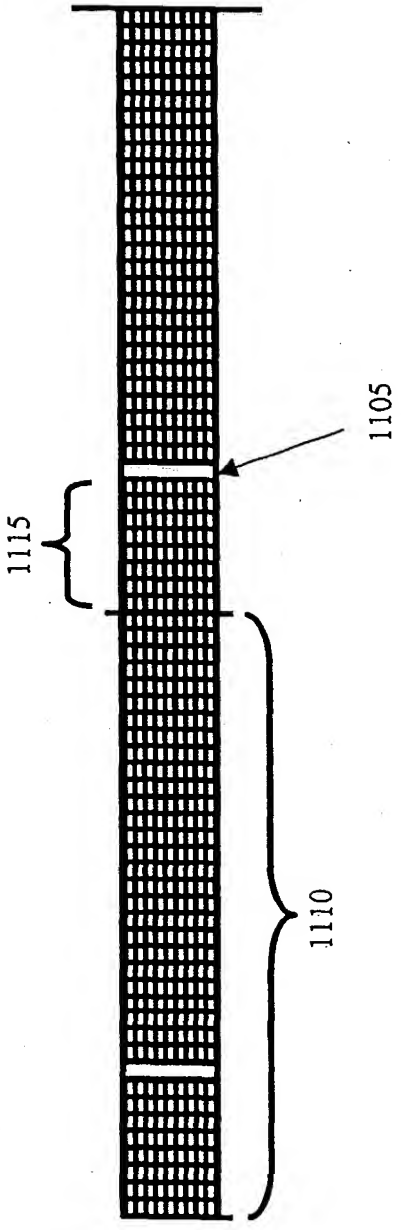

Fig. 11A

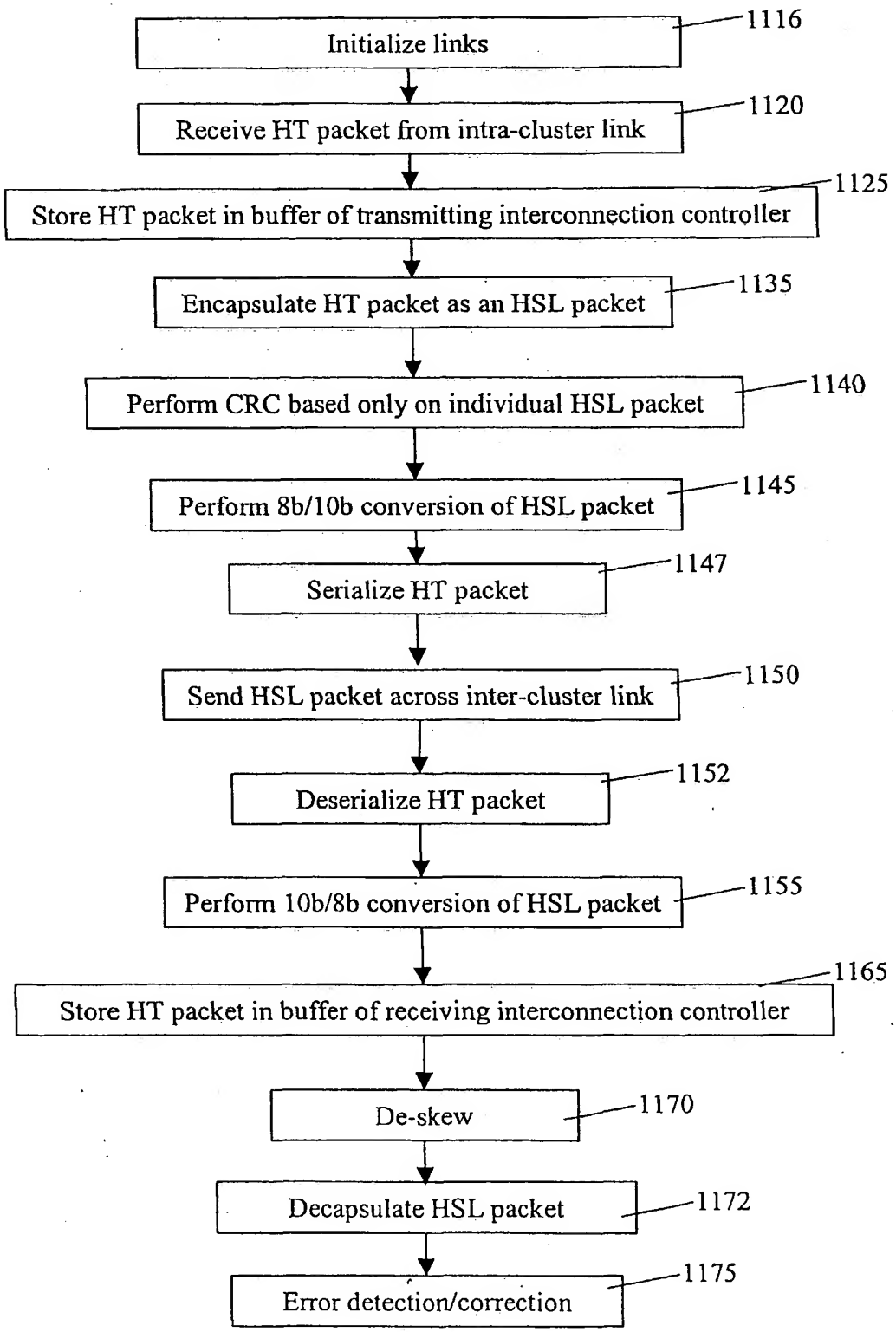
Initialize links
1116
Receive HT packet from intra-cluster link
1120
Store HT packet in buffer of transmitting interconnection controller
1125
Encapsulate HT packet as an HSL packet
1135
Perform CRC based only on individual HSL packet
1140
Perform 8b/10b conversion of HSL packet
1145
Serialize HT packet
1147
Send HSL packet across inter-cluster link
1150
Deserialize HT packet
1152
Perform 10b/8b conversion of HSL packet
1155
Store HT packet in buffer of receiving interconnection controller
1165
De-skew
1170
Decapsulate HSL packet
1172
Error detection/correction
1175

Fig. 11B

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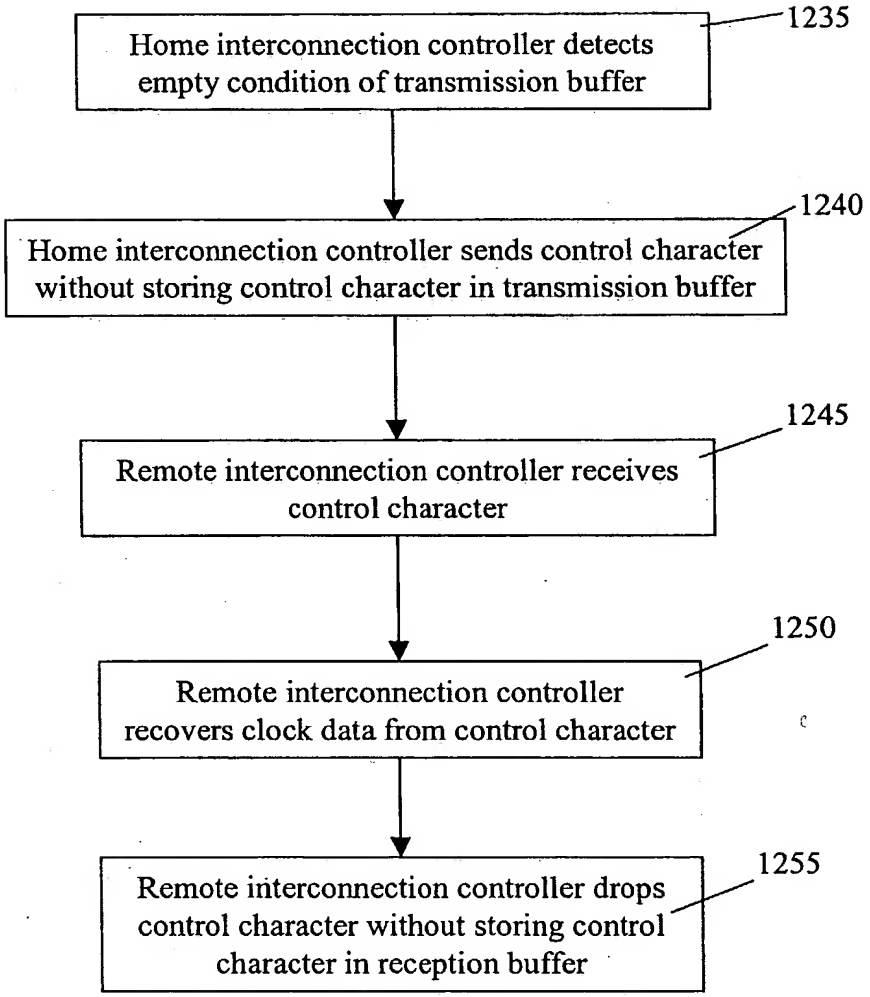

Fig. 12A

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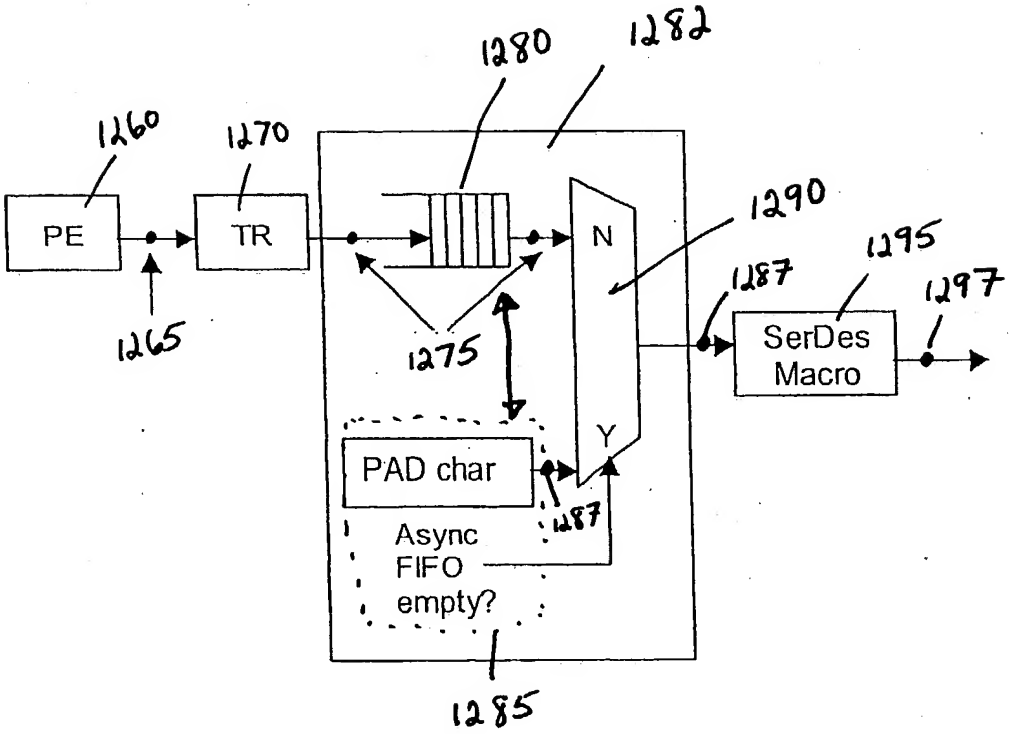

Fig. 12B

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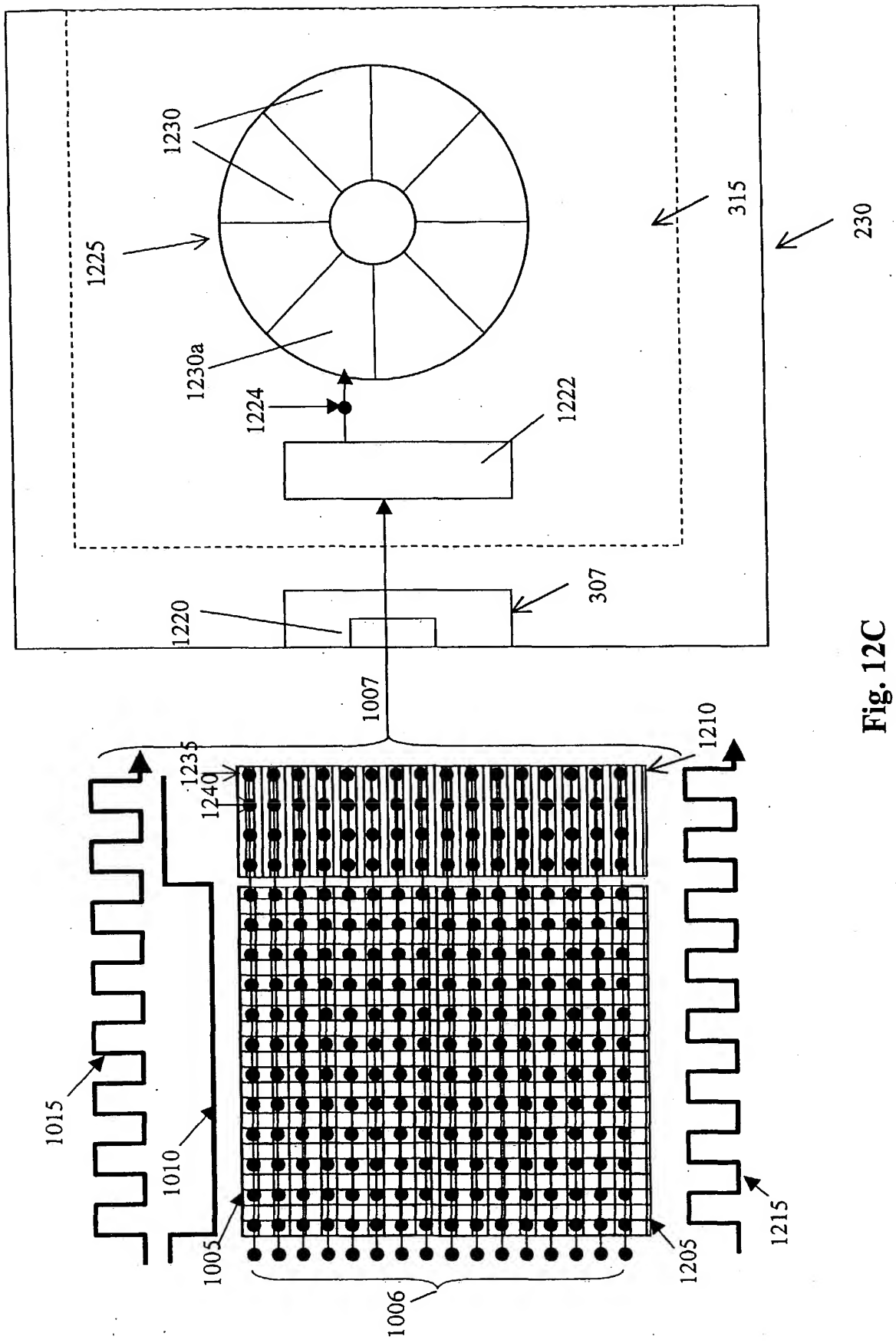

Fig. 12C

32b HT packet	32 b ACK/NACK packet	6b SeqID	2b PT	12b Remote bits	12b CRC12

Fig 13A: Protocol Packet- 32b Control

32b (31:0) HT packet	32 b (63:32) HT packet	6b SeqID	2b PT	12b Remote bits	12b CRC12

Fig 13B: Protocol Packet- 64b Control.

32b Data	32 b unused	6b SeqID	2b PT	8b Packet length	16b CRC16

Fig. 13C: Data Packet- 32b.

32b (31:0) Data	32 b (63:32) Data	6b SeqID	2b PT	8b Packet length	16b CRC16

Fig. 13D: Data Packet- 64b.

32b (31:0) Data	32 b (63:32) Data	6b SeqID	2b PT	8b Packet length	16 b unused
32b (95:64) Data	32 b unused	16b unused			16b CRC16

Fig 13E: Data Packet- 96b.

32b (31:0) Data	32 b (63:32) Data	6b SeqID	2b PT	8b Packet length	16 b unused
32b (95:64) Data	32b (127:96) Data	16b unused			16b CRC16

Fig 13F: Data Packet- 128b.

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32b (31:0) Data	32 b (63:32) Data	6b SeqID	2b PT	8b Packet length	16 b unused
32b (95:64) Data	32b (127:96) Data	32 b (159:128) Data			
32 b unused	32 b unused	16b unused			16b CRC16

Fig 13G: Data Packet- 160b.

32b (31:0) Data	32 b (63:32) Data	6b SeqID	2b PT	8b Packet length	16 b unused
32b (95:64) Data	32b (127:96) Data	32 b (159:128) Data			
32 b (191:160) Data	32 b unused	16 b unused			16b CRC16

Fig 13H: Data Packet- 192b.

32b (31:0) Data	32 b (63:32) Data	6b SeqID	2b PT	8b Packet length	16 b unused
32b (95:64) Data	32b (127:96) Data	32 b (159:128) Data			
32b (191:160) Data	32b (223:192) Data	32 b (255:224) Data			
32b (303:272) Data	32b (335:304) Data	32 b (367:336) Data			
32b (383:368) Data	32b (415:384) Data	32 b (447:416) Data			
32b (479:448) Data	32b (511:480) Data	16 b unused			16b CRC16

Fig 13I: Data Packet- 512b.

Command	8b Rsv	8b Rsv	1b Rsv	SeqID	1b Valid

Fig 13J: ACK/NACK Packet Format.

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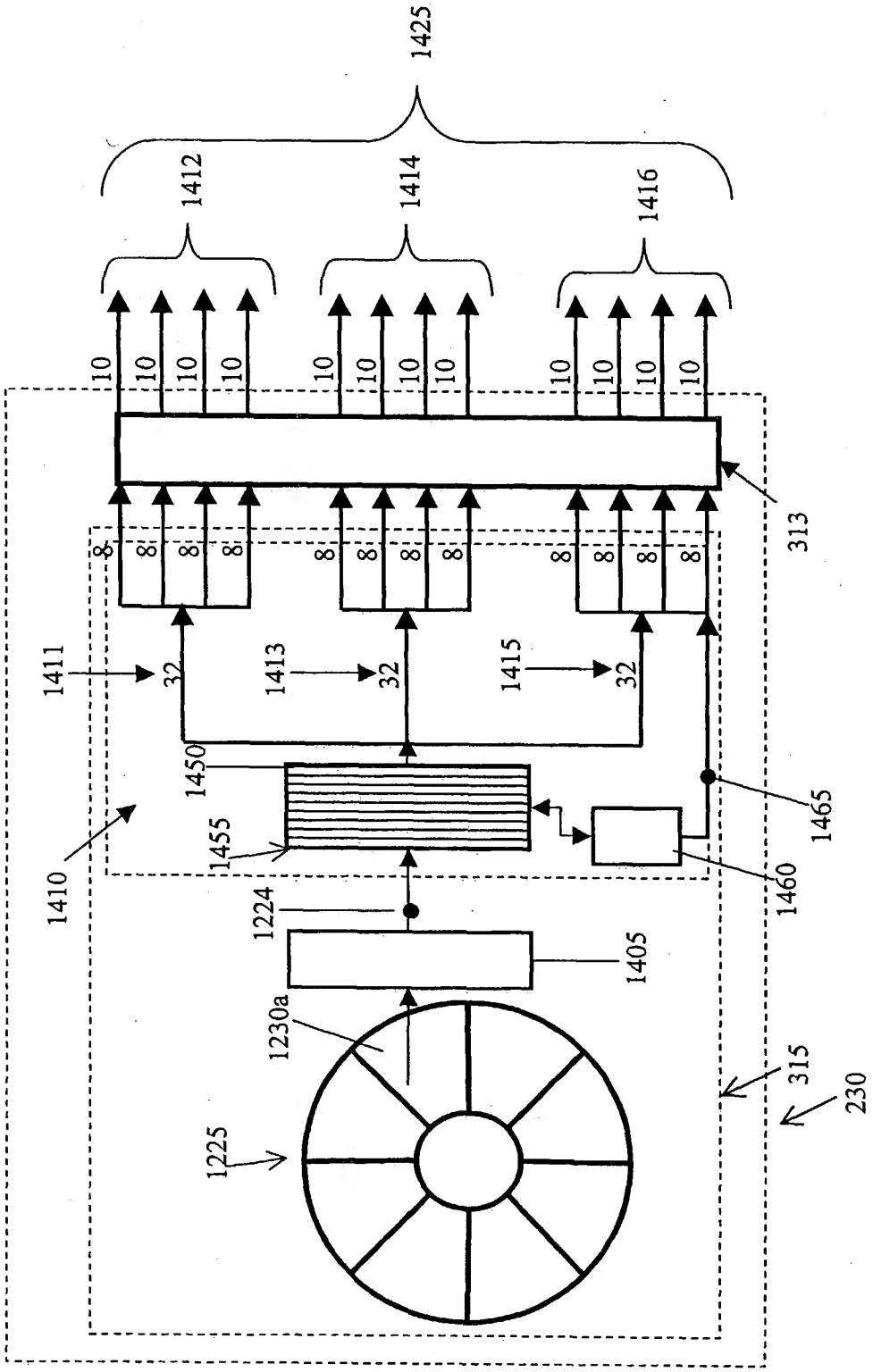

Fig. 14

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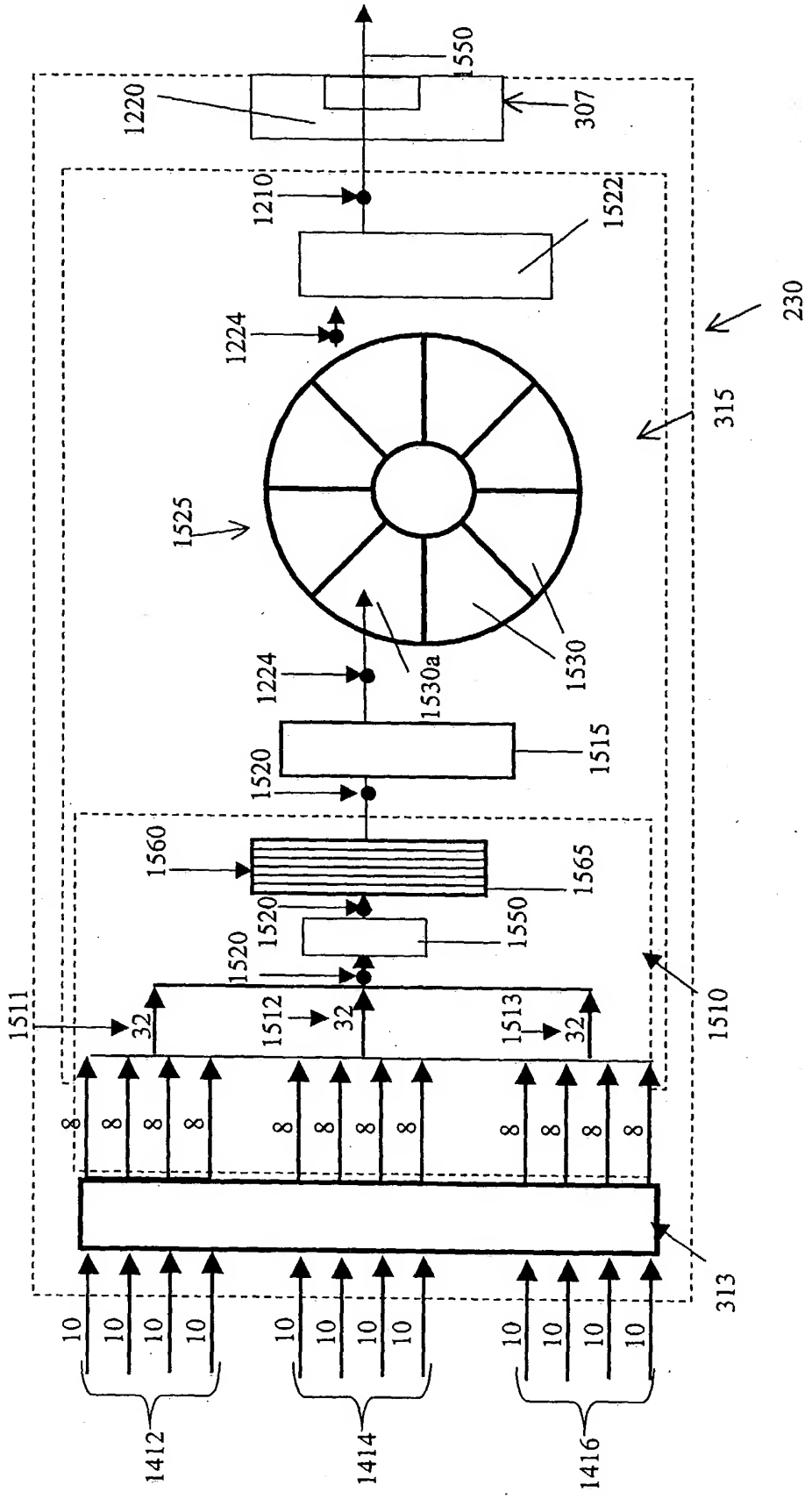

Fig. 15

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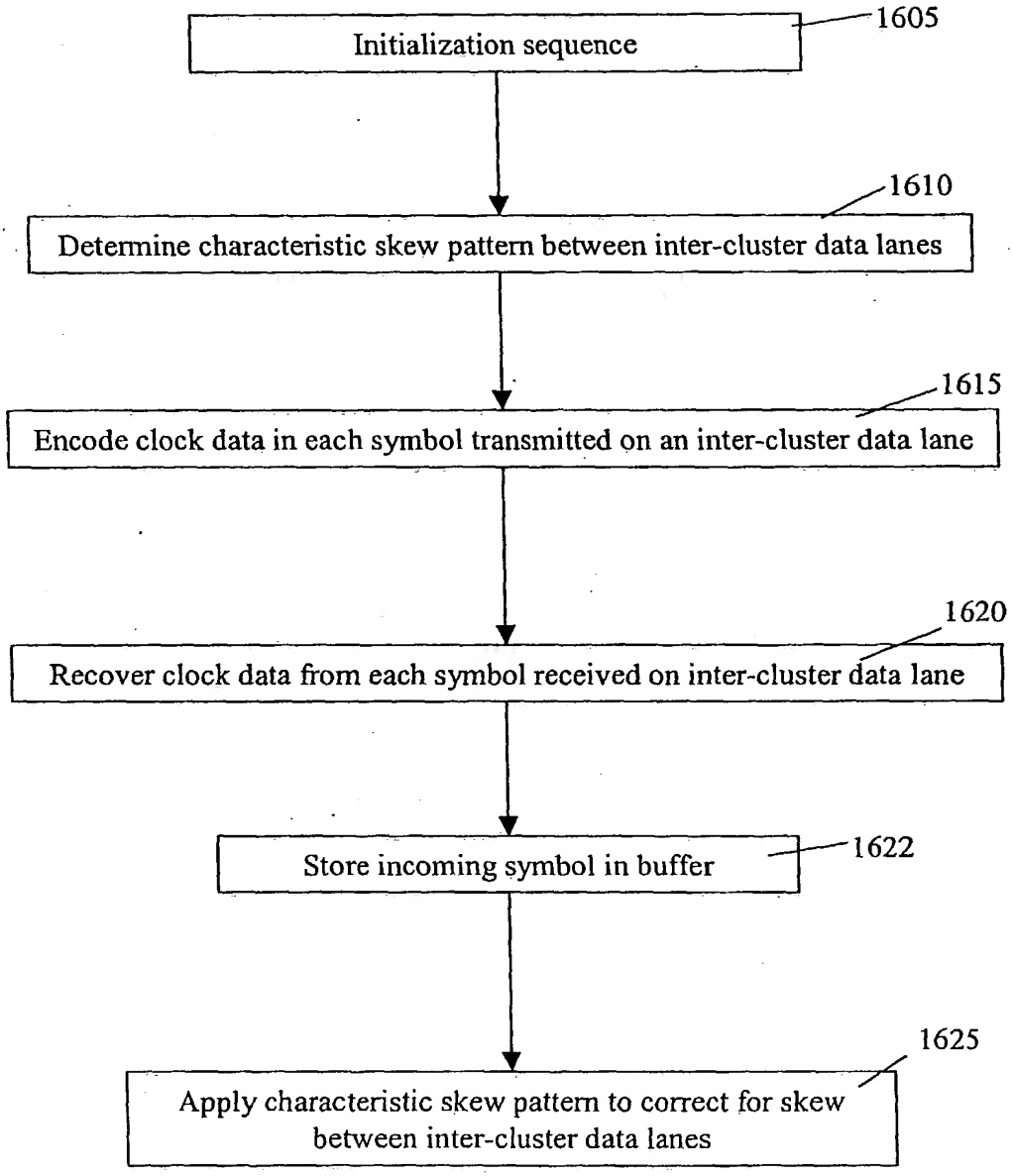

Fig. 16